TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-15-06** **Date: 22-05-2017**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance of Footpath and Construction of SSM Wall and Kerb in Ward No. 13
Agency	:	Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.
Customer's Reference	:	EE/DD/WO/21/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	18-05-17
Sample ID No	:	2017-05-18-07/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	658	658	4.4	95.6	90-100
3	20 mm	8652	9310	62.1	37.9	30-70
4	10 mm	2986	12296	82.0	18.0	10-35
5	4.75 mm	2451	14747	98.3	1.7	0-5
6	Pan	253	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-15-06** **Date: 22-05-2017**

Sample ID No : 2017-05-18-07/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	9.2	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.51	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.23	–

Note:

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Prepared by
Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-18-07** **Date: 22-05-2017**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance of Footpath and Construction of SSM Wall and Kerb in Ward No. 13
Agency	:	Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.
Customer Reference	:	EE/DD/WO/21/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-05-17
Sample ID No	:	2017-05-18-07/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	187	187	3.7	96.3	90-100
3	10 mm	2575	2762	55.2	44.8	25-55
4	4.75 mm	2061	4823	96.5	3.5	0-10
5	Pan	177	5000	100	0	_

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-18-07** **Date: 22-05-2017**

Sample ID No : 2017-05-18-07/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	13.4	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.19	–
7	Aggregate crushing Value(%)	22.7	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	20.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Prepared by
Harshitha

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R.KARTHIK RECHAN
Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-05-18-07** **Date: 22-05-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance of Footpath and Construction of SSM Wall and Kerb in Ward No. 13
Agency	:	Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.
Customer's Reference	:	EE/DD/WO/25/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-05-17
Sample ID No	:	2017-05-18-07/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	18-05-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	55	55	5.5	94.5	90-100	90-100	90-100	95-100
3	2.36 mm	174	229	22.9	77.1	60-95	75-100	85-100	95-100
4	1.18 mm	213	442	44.2	55.8	30-70	55-90	75-100	90-100
5	600 micron	176	618	61.8	38.2	15-34	35-59	60-79	80-100
6	300 micron	218	836	83.6	16.4	5-20	8-30	12-40	15-50
7	150 micron	128	964	96.4	3.6	0-10	0-10	0-10	0-15
8	Pan	36	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-05-18-07**

Sample ID No : 2017-05-18-07/03

Date: 22-05-17

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.17	–
2	Specific Gravity	2.61	–
3	Material finer than 75 micron(%)	3.4	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

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Prepared by
Harshitha

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Authorized Signatory
Quality Manager

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-31-02** **Date: 26-06-17**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Maintenance of Footpath and Construction of SSM Wall and Kerb in Ward No. 13

Agency : Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.

Customer's Reference : EE/DD/WO/21/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-05-17

Sample ID No : 2017-05-31-02/02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	29/05/2017	26/06/2017	150.65 X 151.43 X 151.76	22813	8.107	540.7	23.7	23.7
2	Drain Concrete	M20	29/05/2017	26/06/2017	150.23 X 150.63 X 151.05	22629	8.117	522.7	23.1	
3	Drain Concrete	M20	29/05/2017	26/06/2017	150.22 X 150.98 X 149.45	22680	8.186	548.9	24.2	

Note:
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Prepared by
Harsitha

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-31-02** **Date: 05-06-17**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Maintenance of Footpath and Construction of SSM Wall and Kerb in Ward No. 13

Agency : Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.

Customer's Reference : EE/DD/WO/21/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-05-17

Sample ID No : 2017-05-31-02/01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	29/05/2017	05/06/2017	149.68 X 150.28 X 150.28	22494	8.118	380.1	16.9	17.3
2	Drain Concrete	M20	29/05/2017	05/06/2017	150.19 X 151.02 X 150.97	22682	8.169	390.1	17.2	
3	Drain Concrete	M20	29/05/2017	05/06/2017	150.22 X 149.27 X 150.98	22423	8.183	396.9	17.7	

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-05-18-07**

Date: 20-05-2017

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Maintenance of Footpath and Construction of SSM Wall and Kerb in Ward No. 13

Agency : Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.

Customer's Reference : EE/DD/WO/21/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-05-17

Sample ID No : 2017-05-18-07/01

Sample Type : ACC 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 19-05-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.21	–
2	Finess by Air permeablity method (m^2/kg, Min)	272.9	225m^2/kg, Min
3	Density (gm/cc)	3.18	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	190 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:
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Prepared by
Harshitha

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Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-18-07** **Date: 16-06-2017**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance of Footpath and Construction of SSM Wall and Kerb in Ward No. 13
Agency	:	Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.
Customer's Reference	:	EE/DD/WO/21/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-05-17
Sample ID No	:	2017-05-18-07/01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	19-05-17

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harshitha

FOR CIVIL Pro.

CIVIL Pro BANGALORE Sig..... Date.....

R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE-13
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ಹಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರಘೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

****End of Report****

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2017-06-01-01**	**Date: 05-06-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.	
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.	
Project Name	:	Maintenance of Footpath and Construction of SSM Wall and Kerb in Ward No. 13	
Agency	:	Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.	
Customer's Reference	:	EE/DD/WO/21/17-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	01-06-17	
Sample ID No	:	2017-06-01-01/01	
Sample Type /Size	:	CC Kerb Stone/ 450*150*500mm	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	01/06/2017	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	150.51	2.875	7854	132.1	16.8	16.8	21.0
2	B	100.03	150.49	2.955	7857	135.2	17.2	17.2	21.5
3	C	100.01	150.50	2.965	7854	139.1	17.7	17.7	22.1

Note:
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Prepared by
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FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

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ಎಸ್.ಎಂ.ಕೃಷ್ಣ ನಗರ, ಗಂಗೇಂದ್ರನಗರ, ಬೆಂಗಳೂರು

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |